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NEWS 2 NOV 21 CAS patent coverage to include exemplified prophetic
substances identified in English-, French-, German-,
and Japanese-language basic patents from 2004-present
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NEWS 7 DEC 12 GBFULL now offers single source for full-text
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NEWS 8 DEC 17 Fifty-one pharmaceutical ingredients added to PS
NEWS 9 JAN 06 The retention policy for unread STNmail messages
will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 10 JAN 07 WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
Classification Data
NEWS 11 FEB 02 Simultaneous left and right truncation (SLART) added
for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 12 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13 FEB 06 Patent sequence location (PSL) data added to USGENE
NEWS 14 FEB 10 COMPENDEX reloaded and enhanced
NEWS 15 FEB 11 WTEXTILES reloaded and enhanced
NEWS 16 FEB 19 New patent-examiner citations in 300,000 CA/CAPLUS
patent records provide insights into related prior
art
NEWS 17 FEB 19 Increase the precision of your patent queries -- use
terms from the IPC Thesaurus, Version 2009.01
NEWS 18 FEB 23 Several formats for image display and print options
discontinued in USPATFULL and USPAT2
NEWS 19 FEB 23 MEDLINE now offers more precise author group fields
and 2009 MeSH terms
NEWS 20 FEB 23 TOXCENTER updates mirror those of MEDLINE - more
precise author group fields and 2009 MeSH terms
NEWS 21 FEB 23 Three million new patent records blast AEROSPACE into
STN patent clusters
NEWS 22 FEB 25 USGENE enhanced with patent family and legal status
display data from INPADOCDB
NEWS 23 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display
formats

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:33:40 ON 08 MAR 2009

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 13:33:56 ON 08 MAR 2009
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STRUCTURE FILE UPDATES: 6 MAR 2009 HIGHEST RN 1116745-20-0
DICTIONARY FILE UPDATES: 6 MAR 2009 HIGHEST RN 1116745-20-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

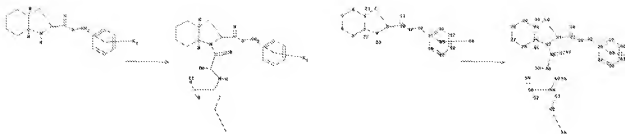
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\STNEXP\Queries\10599918 I to III R defined.str



```

chain nodes :
10 11 12 19 21 22 23 33 34 35 42 44 45 46 47 48 49 50 51 52 53
54 55 56 57 58 59 64 66
ring nodes :
1 2 3 4 5 6 7 8 9 13 14 15 16 17 18 24 25 26 27 28 29 30 31
32 36 37 38 39 40 41
chain bonds :
1-21 2-22 8-10 9-23 10-11 10-12 12-19 24-44 25-45 31-33 32-46 33-34 33-
35
35-42 46-47 46-48 48-49 48-53 49-50 49-54 50-51 50-56 51-52 52-55 56-57
56-58 58-59
ring bonds :
1-2 1-6 1-7 2-3 2-9 3-4 4-5 5-6 7-8 8-9 13-14 13-18 14-15 15-16 16-17
17-18 24-25 24-29 24-30 25-26 25-32 26-27 27-28 28-29 30-31 31-32 36-37
36-41 37-38
38-39 39-40 40-41
exact/norm bonds :
2-9 8-9 10-11 10-12 25-32 31-32 32-46 33-34 33-35 46-47 48-49 49-50 56-
57
56-58
exact bonds :
1-2 1-6 1-7 1-21 2-3 2-22 3-4 4-5 5-6 7-8 8-10 9-23 12-19 24-25 24-29
24-30 24-44 25-26 25-45 26-27 27-28 28-29 30-31 31-33 35-42 46-48 48-53
49-54 50-51
50-56 51-52 52-55 58-59
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18 36-37 36-41 37-38 38-39 39-40 40-41

isolated ring systems :
containing 1 : 24 :
```

G1:X,O,NO2

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 21:CLASS
22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom
31:Atom 32:Atom
33:CLASS 34:CLASS 35:CLASS 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom
42:CLASS
43:Atom 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS
51:CLASS 52:CLASS
```

53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS 58:CLASS 59:CLASS 64:CLASS
65:Atom 66:CLASS
68:Atom
fragments assigned product role:
containing 24
fragments assigned reactant/reagent role:
containing 1

L1 STRUCTURE UPLOADED

=> d L1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> file casreact

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.48

0.70

FILE 'CASREACT' ENTERED AT 13:34:26 ON 08 MAR 2009

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FILE CONTENT:1840 - 2 Mar 2009 VOL 150 ISS 10

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*
* CASREACT now has more than 16.5 million reactions *
*

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L1 SSS full

FULL SEARCH INITIATED 13:34:30 FILE 'CASREACT'

SCREENING COMPLETE - 165 REACTIONS TO VERIFY FROM

26 DOCUMENTS

100.0% DONE 165 VERIFIED 2 HIT RXNS 2 DOCS
SEARCH TIME: 00.00.01

L2 2 SEA SSS FUL L1 (2 REACTIONS)

=> d ibib abs fh1t 1-

YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L2 ANSWER 1 OF 2 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 148:55381 CASREACT Full-text

TITLE: Process for the preparation of perindopril and intermediates thereof

INVENTOR(S): Haider, Akhtar; Megevand, Sophie; Nicollier, Brigitte; Pannatier, Yvan

PATENT ASSIGNEE(S): Sochinaz SA, Switz.

SOURCE: Eur. Pat. Appl., 19pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

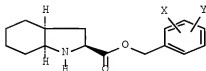
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

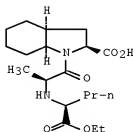
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1864973	A1	20071212	EP 2006-11981	20060609
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
PRIORITY APPLN. INFO.:			EP 2006-11981	20060609

OTHER SOURCE(S): MARPAT 148:55381

GI



II

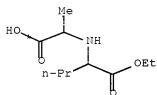


III

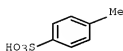
AB The invention provides a novel method for the synthesis of (2S,3aS,7aS)-octahydroindole-2-carboxylic acid (I) and its aryl esters II [wherein X, Y = H, halo, alkyl, alkoxyl or nitro group], and the conversion of the p-nitrobenzyl ester of the acid into perindopril or its salts. II were obtained via esterification of racemic octahydroindole-2-carboxylic acid hydrochloride with benzyl alcs. in the presence of aryl sulfonic acids such as p-TsOH, followed by resolution with such as dibenzoyl-(L)-tartaric acid. Alternatively, II could be synthesized directly by esterification of chiral I

with benzyl alcs. For example, I was reacted with p-nitrobenzyl alc. in the presence of p-TsOH to afford p-tosylate salt of the corresponding ester in 79% yield, which underwent DCC/HOBt-mediated coupling reaction with N-[(S)-1-(ethoxycarbonyl)butyl]-(S)-alanine in dichloromethane (80% yield). Pd/C-catalyzed hydrogenolysis of the resultant p-nitrobenzyl ester led to perindopril.

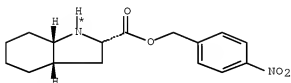
RX(5) OF 21 ...R + Q ==> S...



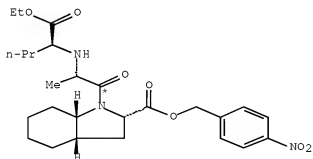
R



Q: CM 1



Q: CM 2



S
YIELD 80%

RX(5) RCT R 82834-12-6

STAGE(1)

SOL 75-09-2 CH2Cl2
CON 10 minutes, room temperature

STAGE(2)

RCT Q 959984-64-6
RGT T 121-44-8 Et3N, U 2592-95-2 1-Benzotriazolol
SOL 75-09-2 CH2Cl2
CON SUBSTAGE(1) room temperature
SUBSTAGE(2) 15 minutes, room temperature

STAGE(3)

RGT V 538-75-0 DCC
CON SUBSTAGE(1) room temperature -> 5 deg C
SUBSTAGE(3) 5 hours, room temperature
SUBSTAGE(4) 1 hour, room temperature -> 5 deg C

PRO S 866430-96-8

NTE workup

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 2 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 141:411226 CASREACT Full-text

TITLE: Process for preparation of perindopril and its salts
INVENTOR(S): Kankan, Rajendra Narayanrao; Rao, Dharmaraj
Ramachandra

PATENT ASSIGNEE(S): Cipla Limited, India; Wain, Christopher Paul

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004099138	A2	20041118	WO 2004-GB2029	20040512
WO 2004099138	A3	20041223		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

IN 2003MU00468	A	20050211	IN 2003-MU468	20030512
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PRIORITY APPLN. INFO.: IN 2003-MU468 20030512

OTHER SOURCE(S): MARPAT 141:411226

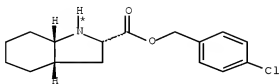
AB A process for preparing perindopril or a pharmaceutically-acceptable salt
comprises esterifying (2S,3aS,7aS)-octahydro-1H-indole-2-carboxylic acid (I)
with benzyl alc. (or the 4-chloro or 4-alkoxy derivative) in the presence of
benzenesulfonic acid as catalyst, treating the intermediate ester
benzenesulfonate with N-[(S)-1-carbethoxybutyl]-L-alanine (II), and ester
cleavage. Thus, 1 benzyl ester benzenesulfonate (40 g) was prepared, its
suspension in CH2Cl2 made alkaline with aqueous ammonia, and the organic layer

separated Treatment with II at 10-15 °C in the presence of hydroxybenzotriazole and N,N'-dicyclohexylcarbodiimide and workup afforded 43 g perindopril benzyl ester.

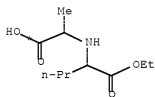
RX(3) OF 10 G + H ==> I...



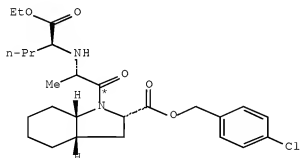
G: CM 1



G: CM 2



H



I

RX(3) RCT G 793716-55-9

STAGE(1)

RGT J 7664-41-7 NH3

SOL 7732-18-5 Water, 75-09-2 CH2Cl2
CON SUBSTAGE(1) room temperature
SUBSTAGE(2) room temperature
SUBSTAGE(3) 0.5 hours, room temperature

STAGE(2)

RCT H 82834-12-6
RGT K 2592-95-2 1-Benzotriazolol, L 538-75-0 DCC
SOL 75-09-2 CH2Cl2
CON SUBSTAGE(1) 10 - 15 deg C
SUBSTAGE(2) 10 - 15 deg C

PRO I 793716-56-6

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log off

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 13:35:20 ON 08 MAR 2009